

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification 7 :</b> <b>D21C 11/12</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 00/60163</b> <b>(43) International Publication Date:</b> 12 October 2000 (12.10.00)
<p><b>(21) International Application Number:</b> PCT/SE00/00596</p> <p><b>(22) International Filing Date:</b> 28 March 2000 (28.03.00)</p> <p><b>(30) Priority Data:</b>          9901186-8      1 April 1999 (01.04.99)      SE</p> <p><b>(71) Applicant (for all designated States except US):</b> KVAERNER CHEMREC AB [SE/SE]; P.O. Box 1033, S-651 15 Karlstad (SE).</p> <p><b>(72) Inventor; and</b>  <b>(75) Inventor/Applicant (for US only):</b> NILSSON, Bengt [SE/SE]; Gränsvägen 21, S-663 00 Skoghall (SE).</p> <p><b>(74) Agent:</b> FURHEM, Hans; Kvaerner Chemrec AB, Box 1033, S-651 15 Karlstad (SE).</p>		<p><b>(81) Designated States:</b> CA, FI, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p><b>Published</b>  <i>With international search report.</i>  <i>In English translation (filed in Swedish).</i></p>

**(54) Title:** APPARATUS FOR GASIFICATION OF SPENT LIQUOR**(57) Abstract**

Arrangement for understoichiometric gasification of spent liquor from chemical pulp production, comprising an upper reactor part (2), which upper reactor part is provided with a burner (5) for the spent liquor and with an internally clad reactor jacket (4), and a lower separating part (8), comprising at least one wall (18), for separating a phase of solid and/or molten material, formed on gasification, from a phase of combustible gaseous material, which separating part (8) is arranged to essentially convey the said phase of solid and/or molten material to a product liquid bath (11). According to the invention, the said separating part (8) also comprises means for creating a cooling and protecting liquid film along at least one side of the said wall (18), the said means comprising a supply line (19) for coolant liquid, which supply line, at its inlet end, is connected to a coolant liquid bath (10) which is separate from the said product liquid bath (11).

